Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70) PCT/PTO 10 NOV 2005

Applicant's or agent's file reference	Recarding India
H1909-01 International application No.	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
PCT/JP2003/014343	International filing date (day/month/year) Priority date (day/month/year)
	** ***********************************
International Patent Classification (IPC) or na H01S 5/022, G02F 1/377, G02B (5/42
WA 1505)	HITA ELECTRIC INDUSTRIAL CO., LTD.
 This international preliminary examina and is transmitted to the applicant according 	ation report has been prepared by this International Preliminary Examining Authority ording to Article 36.
2. This REPORT consists of a total of	4 sheets, including this cover sheet.
This report is also accompanied amended and are the basis for the	by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been in the property in the property in the property in the property is a supercycle of the property in the property is an angle of the property in the property in the property is a supercycle of the property in the property in the property is a supercycle of the property in the property in the property is a supercycle of the property in the property in the property is a supercycle of the property in the property in the property is a supercycle of the property in the propert
These annexes consist of a total	of sheets.
3. This report contains indications relating	to the following items:
I Basis of the report	totals.
II Priority	
III Non-establishment of op	pinion with regard to novelty, inventive step and industrial applicability
IV Lack of unity of invention	on
V Reasoned statement unde citations and explanation	er Article 35(2) with regard to novelty, inventive step or industrial applicability;
VI Certain documents cited	1
VII Certain defects in the inte	ernational application
VIII Certain observations on the	he international application
ate of submission of the demand	Date of completion of this report
31 May 2004 (31.05.2004)	
ame and mailing address of the IPEA/JP	Authorized officer
esimile No.	Telephone No.

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/014343

I. Basis of the report	PC1/JP2003/014343
1. With regard to the elements of the international application:	
the international application as originally filed	
the description:	
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Life Claims:	
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	, filed with the letter of, filed with the demand
the drawings:	
pages	, as originally filed
pages	, filed with the letter of, filed with the demand
the sequence listing part of the description:	
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the international application was filed, unless otherwise indicate These elements were available or furnished to this Australia.	ere available or furnished to this Authority in the language in which
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Busication of the international application	on (under Dute 40 og v
or 55.3).	es of international preliminary examination (under Rule 55.2 and/
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preliminary examination was carried out on the basis of the sequence	nce disclosed in the international application, the international
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furnished subsequently to this Authority in written form.	ce readable form.
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The statement that the subsequently furnished written	able form.
international application as filed has been furnished.	n sequence listing does not go beyond the disclosure in the
The statement that the information recorded in compute	er readable form is identical to the written sequence listing has
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The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/fig	
This report has been established as is (1
beyond the disclosure as filed, as indicated in the Supplement	ments had not been made, since they have been considered to go
Replacement sheets which bear to	(),
n this report as "originally filed" and are not approach to the	ffice in response to an invitation under Article 14 are referred to his report since they do not contain amendments (Rule 70.16
Any replacement sheet containing such amendments must be referr	red to under item 1 and annexed to this report
m PCT/IPEA/409 (Box I) (July 1998)	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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atement			
Novelty (N)	Claims	2-15, 17-19	YI
	Claims	1, 16	NO
Inventive step (IS)	Claims	3, 6-8, 17-19	YI
	Claims	1, 2, 4, 5 ,9-16	NO
Industrial applicability (IA)	Claims	1-19	YE
	Claims		· NO

2. Citations and explanations

The following documents are cited in the ISR:

Document 1: EP, 1041419, A1 (NEC Corp.), 4 October, 2000 (04.10.00)

Document 2: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 52516/1980 (Laid-open No. 154173/1981) (Fujitsu Ltd.), 18 November, 1981

Document 3: JP, 2001-242499, A (NGK Insulators, Ltd.), 7 September, 2001 (07.09.01)

Document 4: JP, 2001-242349, A (Kyocera Corp.), 7 September, 2001 (07.09.01)

Document 5: US, 6261858, B1 (Matsushita Electric Industrial Co., Ltd.), 17 July, 2001 (17.07.01)

Claims 1 and 16

The subject matters of claims 1 and 16 do not appear to be novel in view of documents 2 and 4. It is commonly used art, for example, as also disclosed in document 2 {especially Fig. 4 (a) and (b)} and document 4 (especially the last sentence of paragraph 0029), that (1) a groove parallel to the emission end face of a semiconductor laser is formed on a sub-mount at the portion where an optical waveguide device and the said semiconductor laser achieve optical coupling, and (2) the adhesive layer of the said optical waveguide device ranges from the position in contact with the edge of the said groove far away from the said semiconductor laser into the groove.

Claims 2 and 11-14

The subject matters of claims 2 and 11-14 do not appear to involve an inventive step in view of documents 2 and 4. The dimensions and distances of respective portions are considered to be generally used

Claims 4, 5, 9, 10 and 15

The subject matters of claims 4, 5, 9, 10 and 15 do not appear to involve an inventive step in view of documents 2-5. The commonly used art as disclosed in documents 2 and 4 is also considered to be used, of course, in the second harmonic generation device as disclosed in document 3 or 5 (especially Figs. 15 and 16). Document 5 discloses that (1) grooves parallel to the emission end face of the said semiconductor laser are formed at several places on a sub-mount including both the vicinity of the incident end face and the emission end face of the said second harmonic generation device, and (2) an adhesive layer is formed along these grooves. The intervals between the grooves are considered to be a mere matter of design variation that a person skilled in the art could have decided as required.

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Supplemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: V

Claims 3, 6-8 and 17-19

The subject matters of claims 3, 6-8 and 17-19 are neither described in any one of the documents cited in the ISR nor obvious to a person skilled in the art.

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